DATE: 08/16/96 TIME: 11:03:22

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This Raw Listing contains the General Information Section and up to the first 5 pages.



```
SEQUENCE LISTING
 1
 2
 3
     (1)
            General Information:
                                                     ENTERED
 4
 5
          (i) APPLICANT: Hewick, Rodney M.
 6
                         Wang, Jack H.
 7
                         Wozney, John M.
 8
                         Celeste, Anthony J.
 9
         (ii) TITLE OF INVENTION: Bone and Cartilage Inductive Proteins
10
11
12
        (iii) NUMBER OF SEQUENCES: 15
13
         (iv) CORRESPONDENCE ADDRESS:
14
               (A) ADDRESSEE: Legal Affairs, Genetics Institute, Inc.
15
               (B) STREET: 87 CambridgePark Drive
16
17
               (C) CITY: Cambridge
               (D) STATE: MA
18
19
               (E) COUNTRY: USA
20
               (F) ZIP: 02140
21
22
          (v) COMPUTER READABLE FORM:
23
               (A) MEDIUM TYPE: Floppy disk
               (B) COMPUTER: IBM PC compatible
24
25
               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26
               (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
27
28
         (vi) CURRENT APPLICATION DATA:
               (A) APPLICATION NUMBER: US 08/319,831
29
30
               (B) FILING DATE: 6-OCT-1994
31
               (C) CLASSIFICATION:
32
33
       (Viii) ATTORNEY/AGENT INFORMATION:
34
               (A) NAME: Kapinos, Ellen J.
35
               (B) REGISTRATION NUMBER: 32,245
36
               (C) REFERENCE/DOCKET NUMBER: GI 5182A-DIV
37
        (ix) TELECOMMUNICATION INFORMATION:
38
39
               (A) TELEPHONE: 617-876-1170
40
               (B) TELEFAX: 617-876-5851
41
42
    (2) INFORMATION FOR SEQ ID NO:1:
43
          (i) SEQUENCE CHARACTERISTICS:
44
45
               (A) LENGTH: 23 amino acids
               (B) TYPE: amino acid
46
```

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```
47
               (C) STRANDEDNESS: single
48
               (D) TOPOLOGY: unknown
49
         (ii) MOLECULE TYPE: peptide
50
51
        (iii) HYPOTHETICAL: NO
52
53
         (iv) ANTI-SENSE: NO
54
55
56
         (vi) ORIGINAL SOURCE:
57
               (F) TISSUE TYPE: Bone
58
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
59
60
61
          Arg His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu Asp Trp
62
                                                10
63
64
          Val Ile Ala Pro Gln Gly Tyr
65
                       20
66
     (2) INFORMATION FOR SEQ ID NO:2:
67
68
69
          (i) SEQUENCE CHARACTERISTICS:
70
               (A) LENGTH: 18 amino acids
71
               (B) TYPE: amino acid
72
               (C) STRANDEDNESS: single
73
               (D) TOPOLOGY: unknown
74
75
         (ii) MOLECULE TYPE: peptide
76
77
        (iii) HYPOTHETICAL: NO
78
79
         (iv) ANTI-SENSE: NO
80
          (v) FRAGMENT TYPE: internal
81
82
83
         (vi) ORIGINAL SOURCE:
               (A) ORGANISM: Bos taurus
84
               (F) TISSUE TYPE: Bone
85
86
87
88
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
89
90
          Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile
91
                                                10
92
93
          Leu Arg
94
95
96
    (2) INFORMATION FOR SEQ ID NO:3:
97
98
          (i) SEQUENCE CHARACTERISTICS:
99
               (A) LENGTH: 7 amino acids
```

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```
100
                (B) TYPE: amino acid
                (C) STRANDEDNESS: single
101
102
                (D) TOPOLOGY: unknown
103
         (ii) MOLECULE TYPE: peptide
104
105
         (iii) HYPOTHETICAL: NO
106
107
         (iv) ANTI-SENSE: NO
108
109
110
         (vi) ORIGINAL SOURCE:
                (A) ORGANISM: Bos taurus
111
                (F) TISSUE TYPE: Bone
112
113
114
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
115
116
          Ala Cys Cys Ala Pro Thr Lys
117
118
                           5
119
     (2) INFORMATION FOR SEQ ID NO:4:
120
121
122
           (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 23 amino acids
123
124
                (B) TYPE: amino acid
                (C) STRANDEDNESS: single
125
                (D) TOPOLOGY: unknown
126
127
         (ii) MOLECULE TYPE: peptide
128
129
         (iii) HYPOTHETICAL: NO
130
131
         (vi) ORIGINAL SOURCE:
132
133
                (A) ORGANISM: Bos taurus
                (F) TISSUE TYPE: Bone
134
135
136
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
137
138
139
          Thr Asn Glu Leu Pro Pro Pro Asn Lys Leu Pro Gly Ile Phe Asp Asp
140
141
142
          Val His Gly Ser His Gly Arg
143
                       20
144
145
     (2) INFORMATION FOR SEQ ID NO:5:
146
147
           (i) SEQUENCE CHARACTERISTICS:
148
                (A) LENGTH: 80 base pairs
149
                (B) TYPE: nucleic acid
150
                (C) STRANDEDNESS: double
151
                (D) TOPOLOGY: linear
152
```

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```
(ii) MOLECULE TYPE: DNA (genomic)
153
154
155
         (iii) HYPOTHETICAL: NO
156
          (iv) ANTI-SENSE: NO
157
158
159
          (vi) ORIGINAL SOURCE:
                (A) ORGANISM: Bos taurus
160
161
         (vii) IMMEDIATE SOURCE:
162
163
                (B) CLONE: acc30
164
        (viii) POSITION IN GENOME:
165
                (C) UNITS: bp
166
167
          (ix) FEATURE:
168
                (A) NAME/KEY: CDS
169
170
                (B) LOCATION: 25..57
171
172
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
173
174
     GGATCCGCGT GCTGTGCTCC GACC AAG CTG AGC GCC ACC TCC GTG CTC TAC
                                                                                51
175
                                  Lys Leu Ser Ala Thr Ser Val Leu Tyr
176
177
178
                                                                                80
179
     TAC GAC AGCAGCAACA ATGTAATTCT AGA
180
      Tyr Asp
181
       10
182
183
      (2) INFORMATION FOR SEQ ID NO:6:
184
185
186
             (i) SEQUENCE CHARACTERISTICS:
187
                   (A) LENGTH: 11 amino acids
                   (B) TYPE: amino acid
188
                   (D) TOPOLOGY: linear
189
190
191
            (ii) MOLECULE TYPE: protein
192
193
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
194
     Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp
195
196
       1
                        5
                                             10
197
198
     (2) INFORMATION FOR SEQ ID NO:7:
199
200
           (i) SEQUENCE CHARACTERISTICS:
201
                (A) LENGTH: 199 base pairs
202
                (B) TYPE: nucleic acid
203
                (C) STRANDEDNESS: double
204
                (D) TOPOLOGY: linear
205
```

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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831B

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INPUT SET: S12193.raw

		INPUT SET: S1219	93.raw
206	(ii)	) MOLECULE TYPE: DNA (genomic)	
207	,,,,,	N WINDOWS TO A NO	
208 209	(111)	) HYPOTHETICAL: NO	
210	(vi)	) ORIGINAL SOURCE:	
211	( - /	(A) ORGANISM: Bos taurus	
212		(,	
213	(vii)	) IMMEDIATE SOURCE:	
214		(A) LIBRARY: Bovine genomic	
215		(B) CLONE: Lambda 9800-10	
216			
217	(viii)	) POSITION IN GENOME:	
218		(C) UNITS: bp	
219	,	A DELECTION .	
220	(1X)	) FEATURE:	
221 222		(A) NAME/KEY: exon (B) LOCATION: 30199	
223		(B) LOCATION: 30133	
224	(ix)	) FEATURE:	
225	( )	(A) NAME/KEY: intron	
226		(B) LOCATION: 129	
227			
228	(ix)	) FEATURE:	
229		(A) NAME/KEY: CDS	
230		(B) LOCATION: 30179	
231		$\cdot$	
232			
233	(X1)	) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
234 235	maaaaaaam		53
235	TGCCCGCT	TGC CCCCTCCCGC CCCCCCCAG GTG CAC CTG CTG AAG CCG CAC GCG Val His Leu Leu Lys Pro His Ala	53
237		1 5	
238		•	
239	GTC CCC	AAG GCG TGC TGC GCG CCC ACC AAG CTG AGC GCC ACT TCC GTG	101
240	Val Pro	Lys Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val	
241	10	15 20	
242			
243		TAC GAC AGC AGC AAC AAC GTC ATC CTG CGC AAG CAC CGC AAC	149
244	_	Tyr Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn	
245	25	30 35 40	
246	<b>&gt;</b> ma ama	OMO 000 000 MOO 000 MOO 000 MOOOOOOO NOMOONOOO	100
247 248		GTC CGC GCC TGC GGC TGC CAC TGAGGCCCCA ACTCCACCGG Val Arg Ala Cys Gly Cys His	196
249	wer var	45 50	
250		43 30	
251	CAG		199
252			
253			
254	(2) INFO	ORMATION FOR SEQ ID NO:8:	
255			
256	(	(i) SEQUENCE CHARACTERISTICS:	
257		(A) LENGTH: 49 amino acids	
258		(B) TYPE: amino acid	

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# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/319,831B

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